

## **1. CABLING AND RACK FACTORY STANDARDIZATION MISSION STATEMENT**

In order to allow Davis-Bacon forces and/or SNS technicians to provide efficient installation and checkout during construction and maintenance during operation, the cabling and rack fabrication program will provide

Appropriate project-wide requirements, design criteria and standards

Appropriate installation standards

Identification of cables, connectors and rack equipment for which common procurements would provide benefit

Arrangement of Basic Ordering Agreements (BOA), task order based contracts, or other appropriate procurement mechanisms for the equipment in item c.

The basic approach to be used is as follows:

The existing BOA for the project standard rack configuration and color scheme will be used by all laboratories and subcontractors for procurement of racks.

A task order based contract for single supplier of rack fabrication (assembly, installation of electronics and checkout) will be established and used where applicable.

Cabling within racks will be procured as part of rack fabrication contracts. Spare cabling to support maintenance and testing in the RATS building will be procured by SNS.

Cabling needed by Conventional Facilities construction contractors will be procured as part of construction contracts. Cable specifications will be provided by the AE.

Technical Systems cabling will be procured by SNS except for special cases such as:

Cabling that is being provided by equipment suppliers as part of laboratory procurements of equipment (for example the cabling for Rf transmitter equipment in the Linac)

Cabling already in use at laboratories (such as most of the Front End system cabling)

Laboratory expertise is needed to insure proper characteristics are obtained,

Existing laboratory or conventional facilities construction manager (CM) contracts provide a procurement advantage

	Site Communications	FELK	Ring Buildings	Target & Dumps (1)
Linac (RF, Magnet Pwr, Vacuum, Diagnostics, Controls, etc.)	0	10,000	0	0
Ring (RF, Magnet Pwr, Vacuum, Diagnostics, Controls, etc.)	0	0	6,000	0
Target Systems	0	0	0	1,000
Global Controls	80	1,500	500	100
Personnel Protection System (PPS)	30	150	250	400
CF (Lighting, Power, Fire Alarm, CF Controls, Security, Office Network, etc.)	40	500	150	200
Total	150	12150	6900	1700

(1) Cables not listed at present. Estimates are based on equipment being served.

Note: Cabling for instruments is not included because most cabling is part of the instrument itself.

Backbone data service is provided.